

# GEOGRIDS DESIGNED TO ENHANCE SOIL STABILISATION AND PAVEMENT PERFORMANCE

## GEOFABRICS GEOGRID TRIAXIAL

### TECHNICAL DATA SHEET

Geofabrics® Geogrid™ Triaxial is a high-performance, multi-axial geogrid engineered for soil stabilisation and ground improvement in road, rail and heavy-duty pavement applications.

Made from a punched polypropylene sheet, it forms a unique hexagonal structure with triangular apertures that confine and interlock with aggregate. This interlocking mechanism creates a Mechanically Stabilised Layer (MSL) that improves load distribution, increases bearing capacity and enhances pavement performance on soft or variable ground conditions.

- Reduces aggregate layer thickness by over 50% without compromising performance, lowering excavation and fill costs
- Improves bearing capacity and stabilises ballast layers on rail projects, minimising track movement and maintenance requirements
- Increases pavement durability by spreading heavy loads and reducing differential settlement
- All geogrids are manufactured in accordance with a management system which complies with the requirements of ISO 9001:2015

### GEOGRID TRIAXIAL - SPECIFICATIONS

PROPERTY	TEST METHOD	UNITS	Triaxial 26	Triaxial 27
Polymer			Polypropylene	
Carbon Black Content	ASTM D1603	%	2	
Minimum Roll Width	-	m	3.95	3.95
Minimum Roll Length	-	m	50 & 75	50 & 75
Quality Control Strength (MD/CD)				
Typical Unit Weight	EOTA TR41 B.3	kg/m <sup>2</sup>	0.25	0.28
Hexagon Pitch	EOTA TR41 B.4	mm	80 (±4)	80 (±4)
Radial Secant Stiffness at 0.5% Strain	EOTA TR41 B.1	kN/m	390 (-75)	480 (-90)
Radial Secant Stiffness Ratio	EOTA TR41 B.1	-	0.8 (-0.15)	0.8 (-0.15)
Radial Secant Stiffness at 2% Strain	EOTA TR41 B.1	kN/m	290 (-65)	360 (-65)
Junction Efficiency	EOTA TR41 B.2	%	100 (-10)	100 (-10)

The values published are to the best of our knowledge true and correct and are obtained through independent and in-house laboratory testing.

The product specification may change at any time without prior notice. No warranty is expressed or implied. Manufactured in a facility certified to the ISO 9001 Quality Management System Standard.

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or [geofabrics.co.nz](https://www.geofabrics.co.nz) or call 0800 60 60 20 (NZ)

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